

Fig. 1

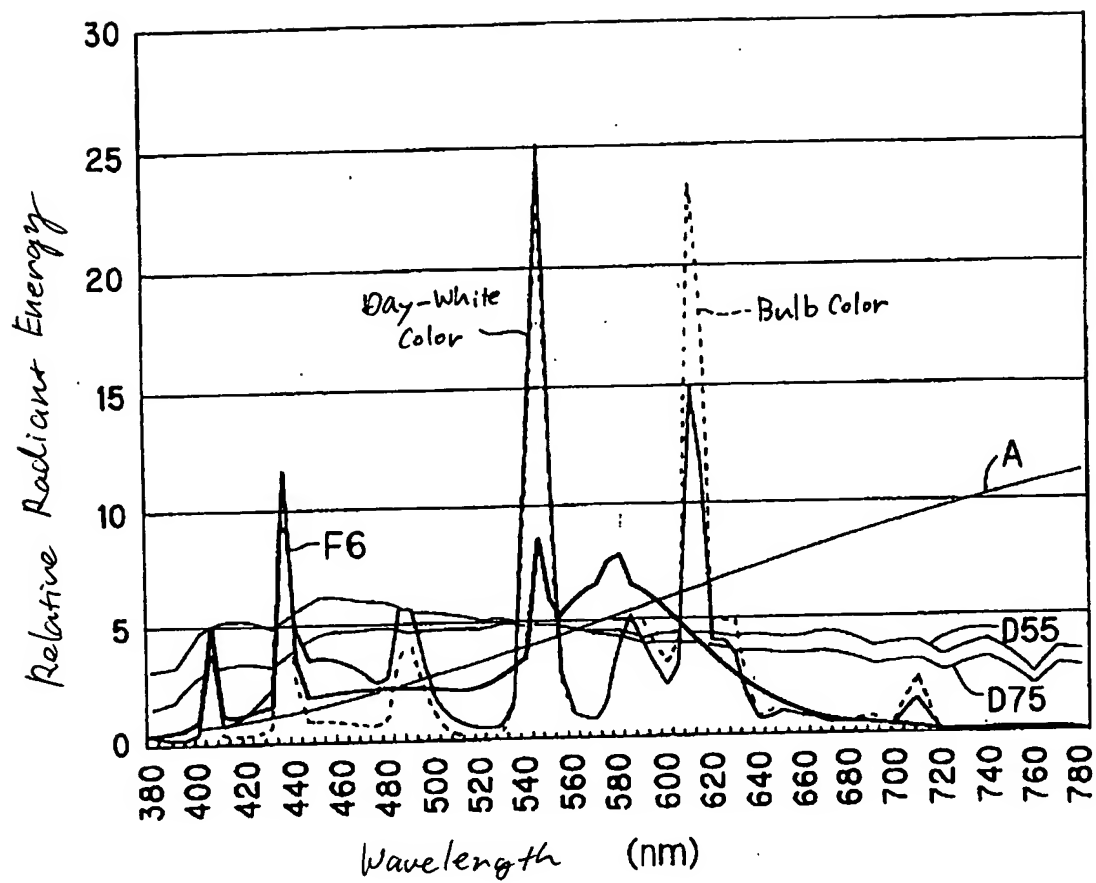
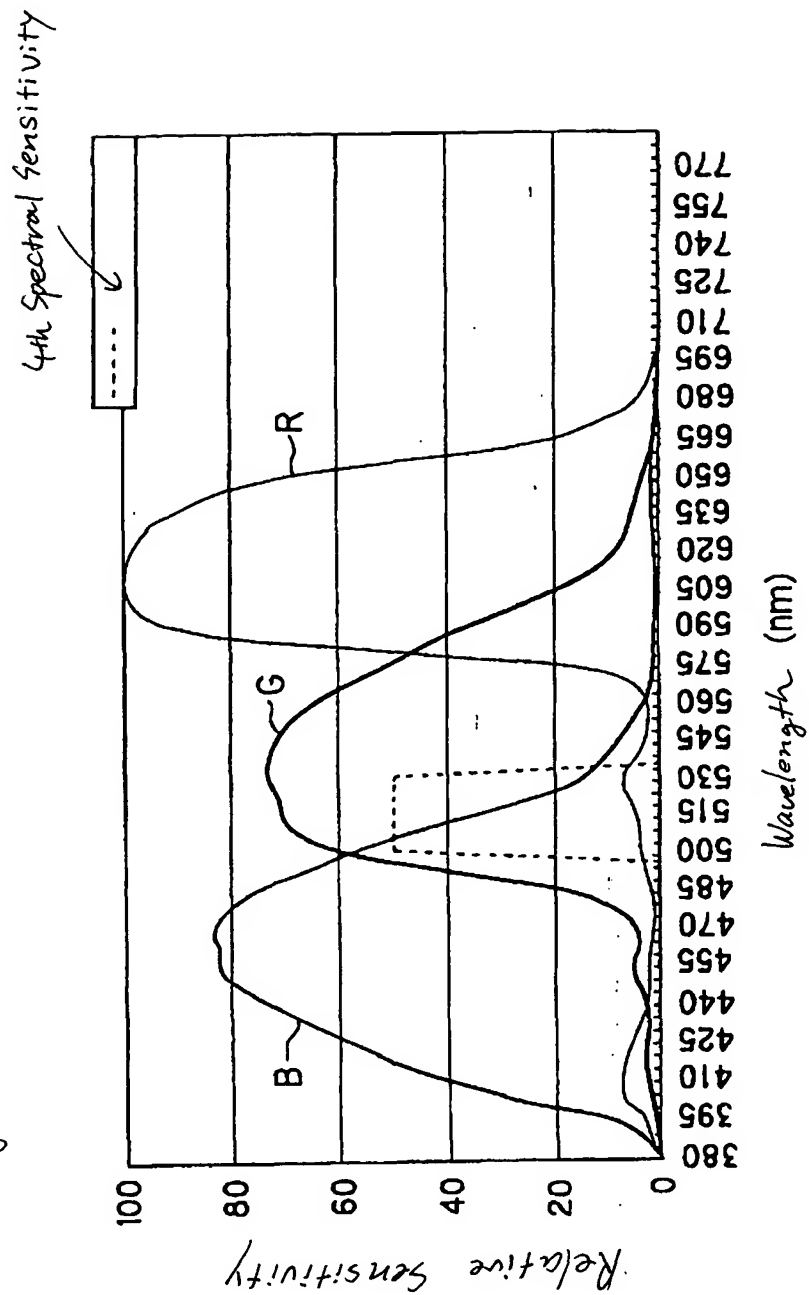


Fig. 2

Fig. 3



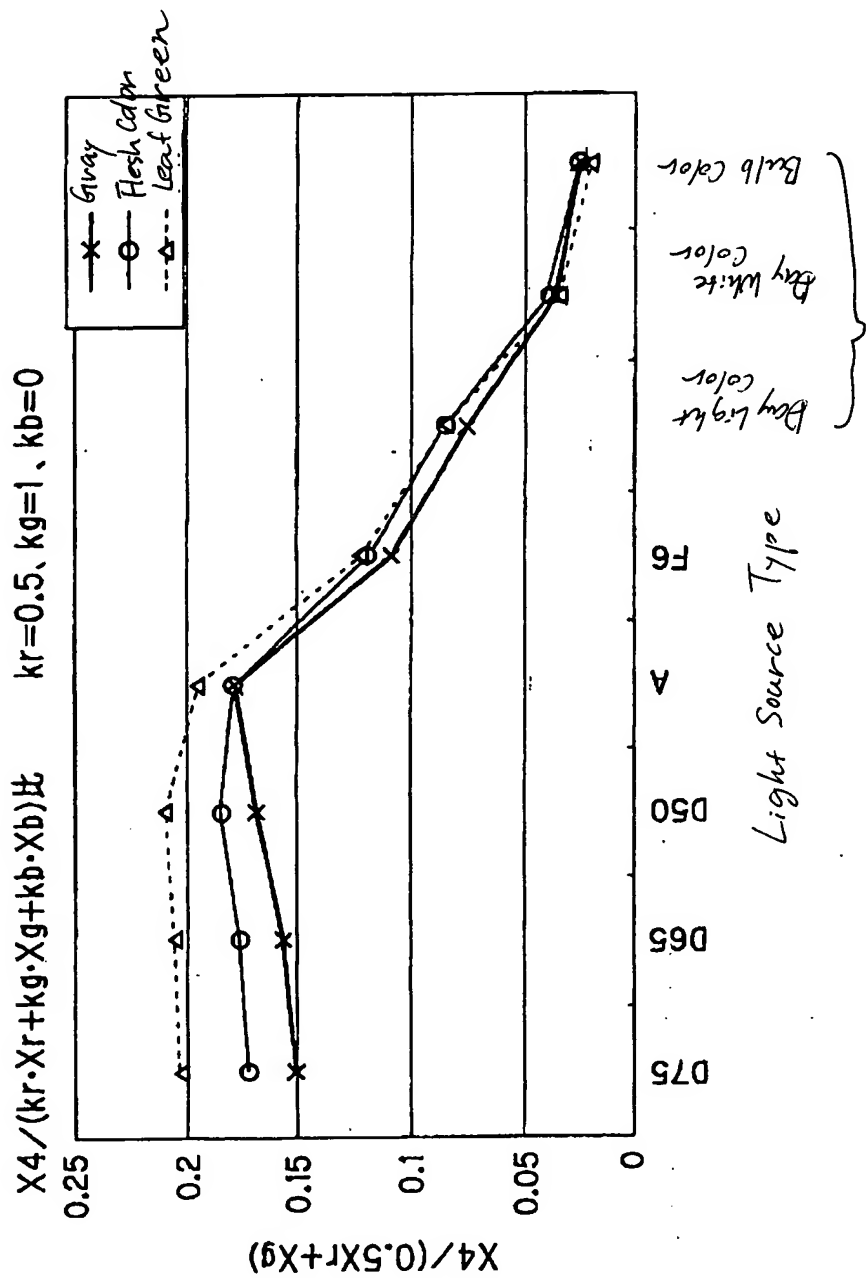


Fig. 4

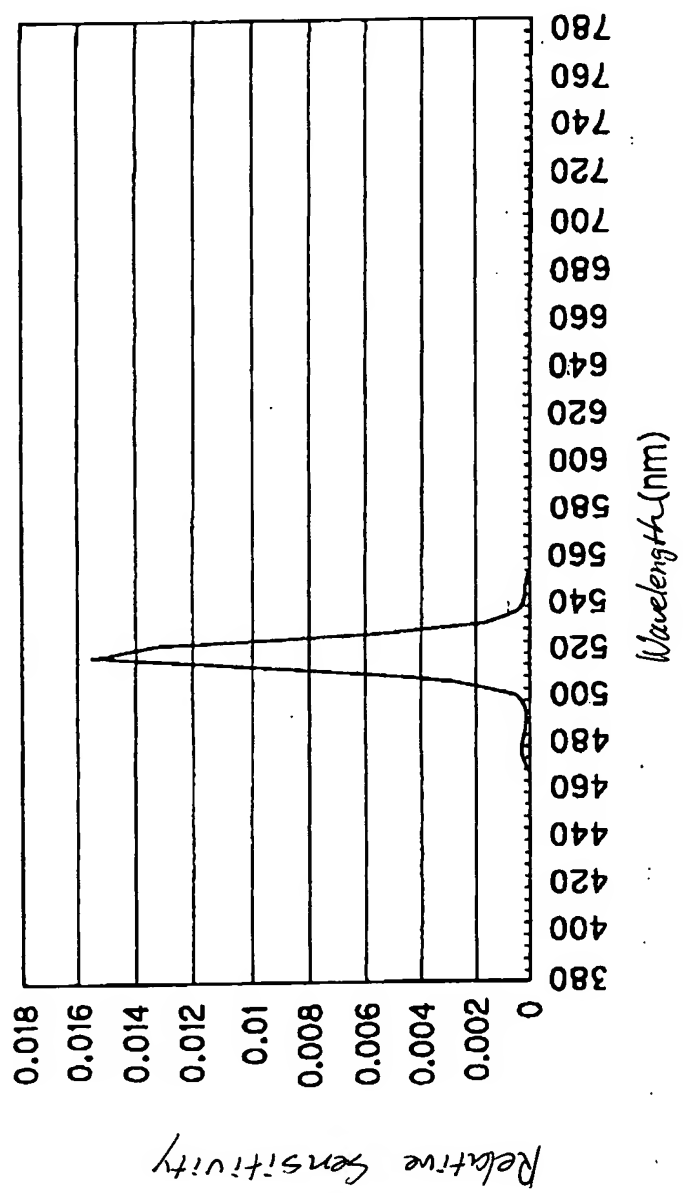
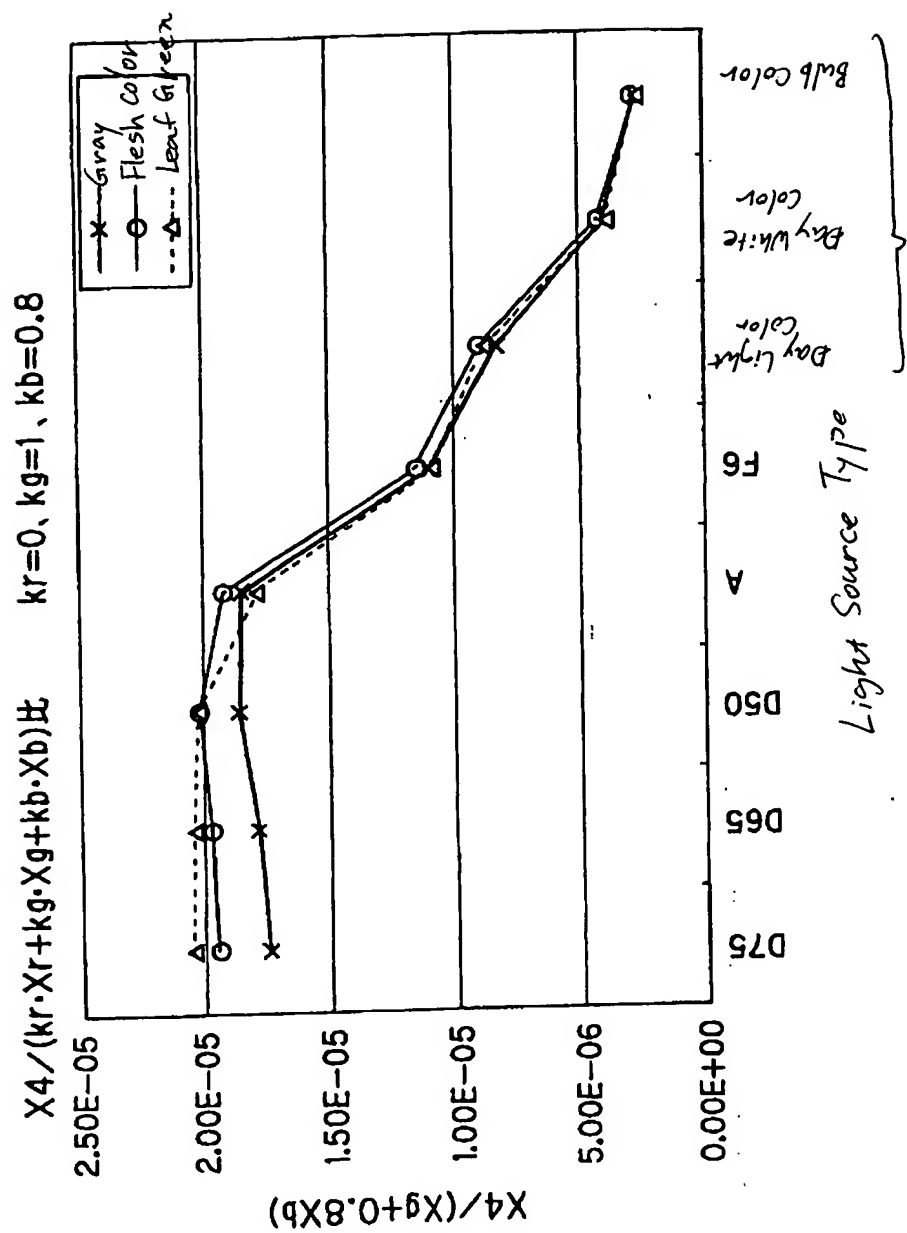


Fig. 5



3-Wave Length Type

Fig. 6

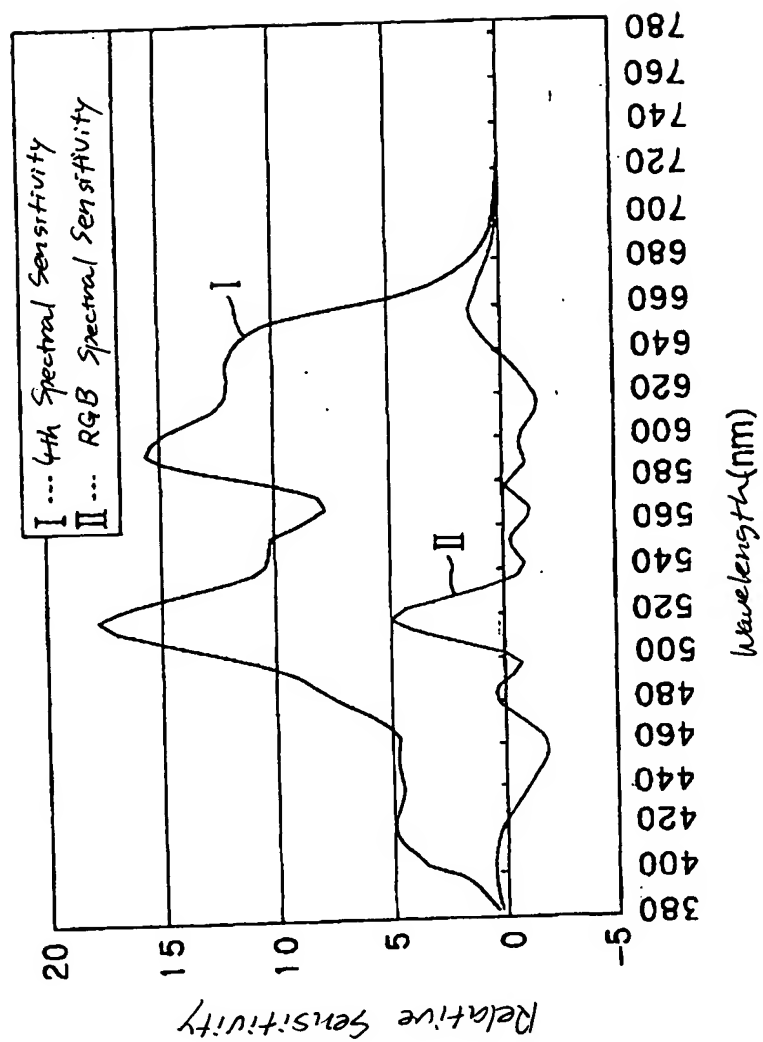
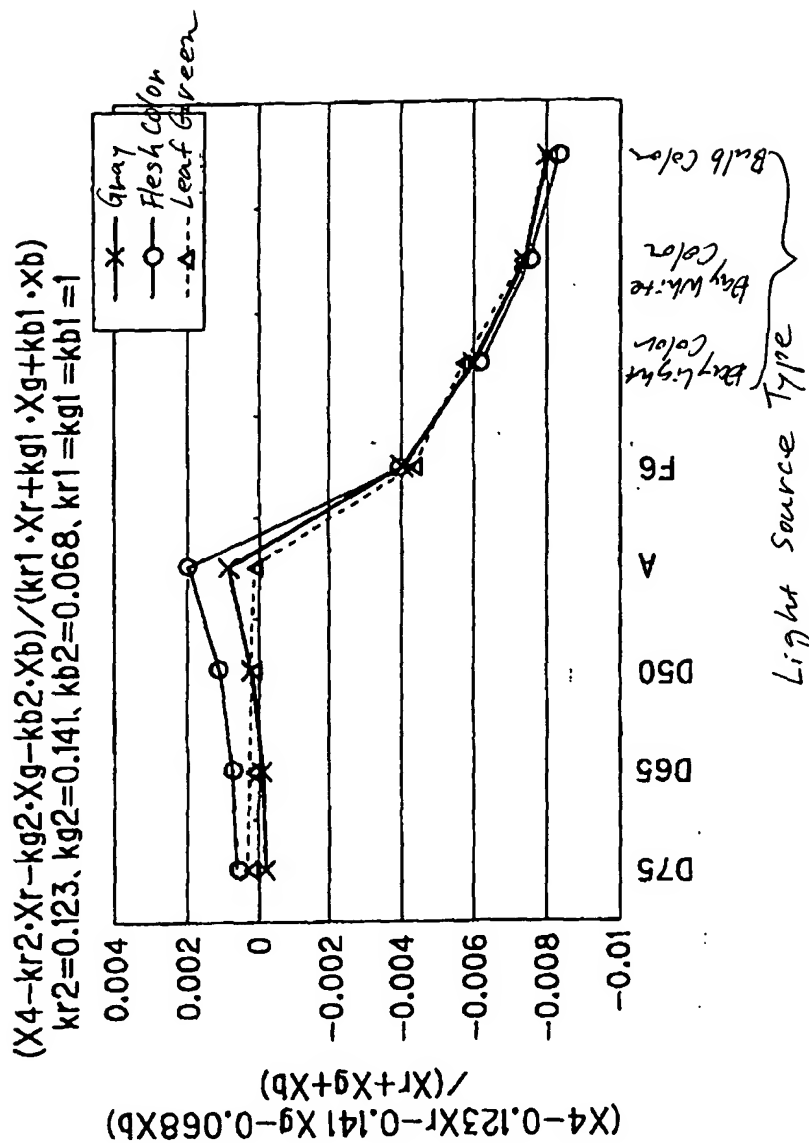


Fig. 7



3-Wavelength Type

Fig. 8

Fig. 9

- (16) Light emitting section
- (17) Light receiving section
- (18) Lens driving section
- (19) Diaphragm driving section
- (20) Image pick-up unit driving section
- (21) Operating section
- (22) Analog signal processing section
- (24) Main memory
- (25) Memory control section
- (26) Digital signal processing section
- (27) Compressing and extending section
- (28) Integrating section
- (29) Recording medium
- (30) External memory control section
- (31) Display section
- (32) Display control section

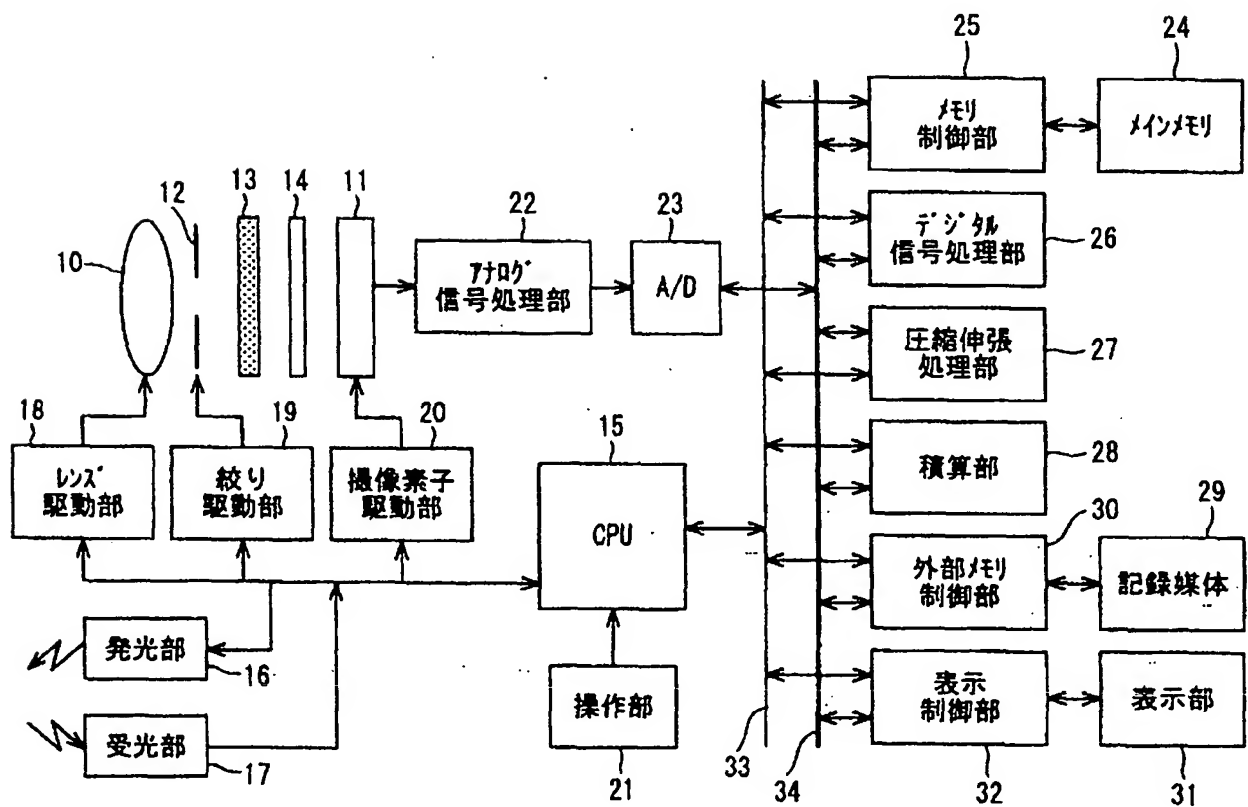
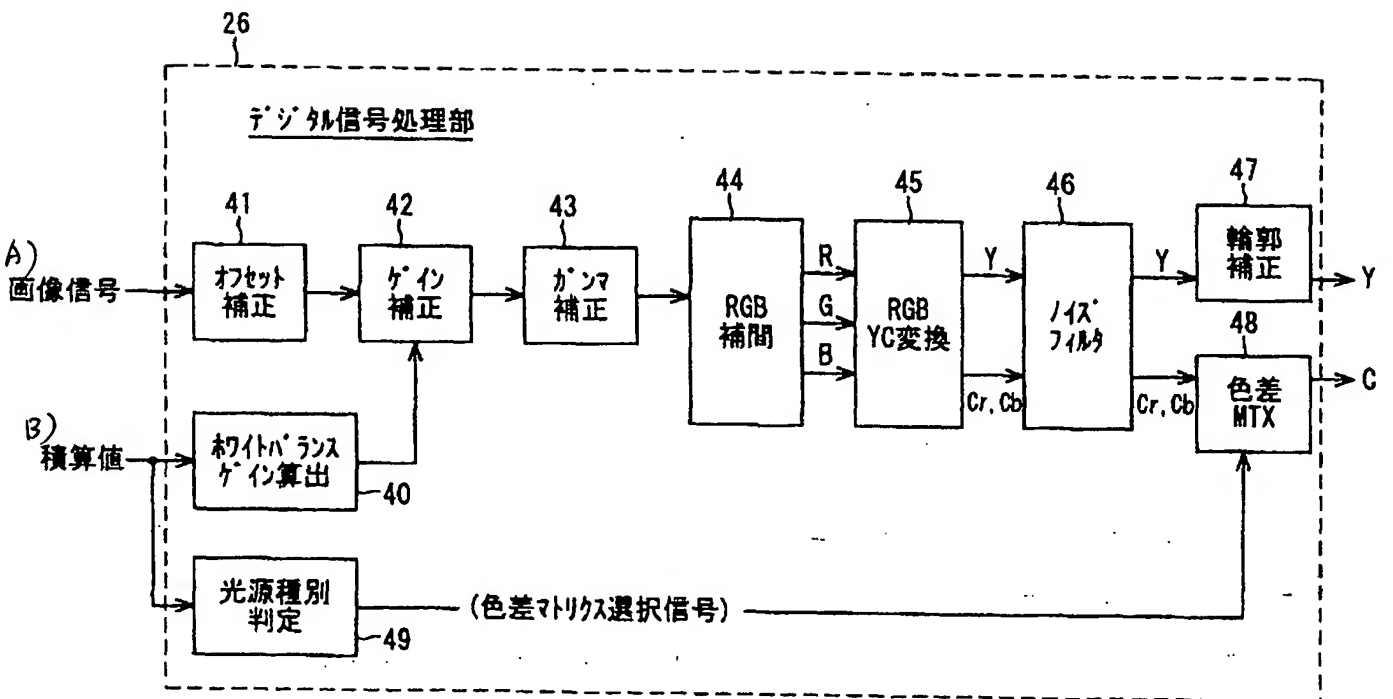


Fig. 10

- (26) Digital signal processing section
 - (40) White balance gain calculation
 - (41) Offset correction
 - (42) Gain correction
 - (43) Gamma correction
 - (44) RGB interpolation
 - (45) RGB YG conversion
 - (46) Noise filter
 - (47) Contour correction
 - (48) Color difference MTX
 - (49) Light source type decision
- A) Image signal
B) Integrated value
C) Color difference matrix selection signal



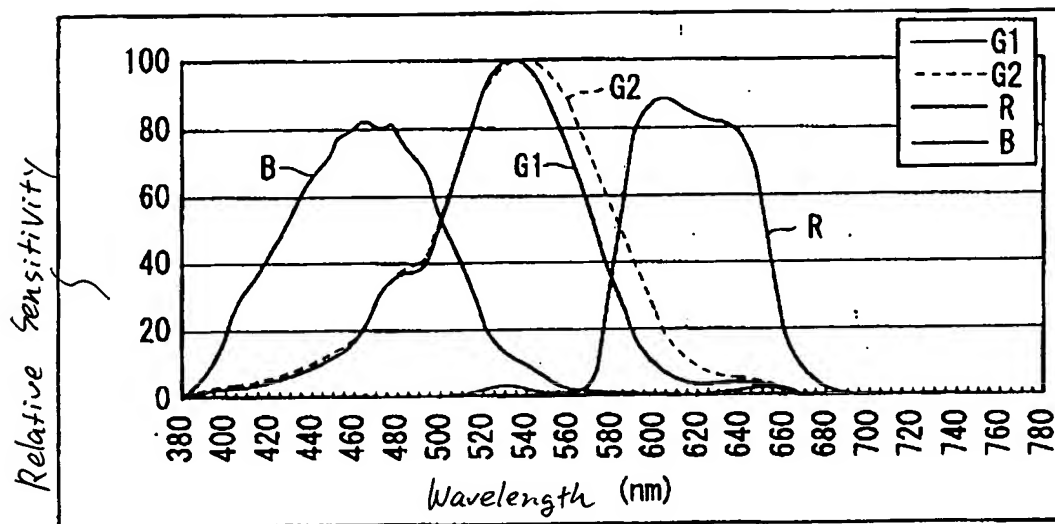


Fig. 11

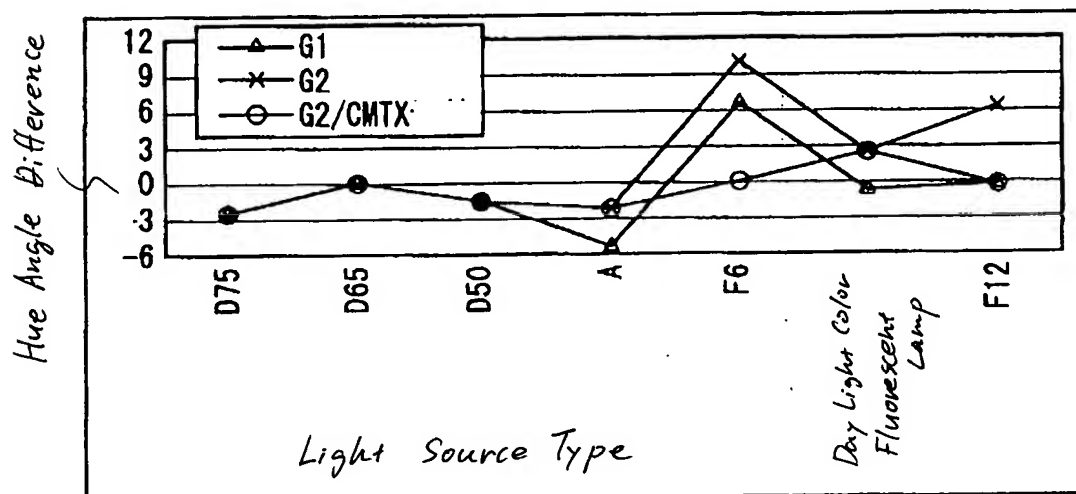


Fig. 12

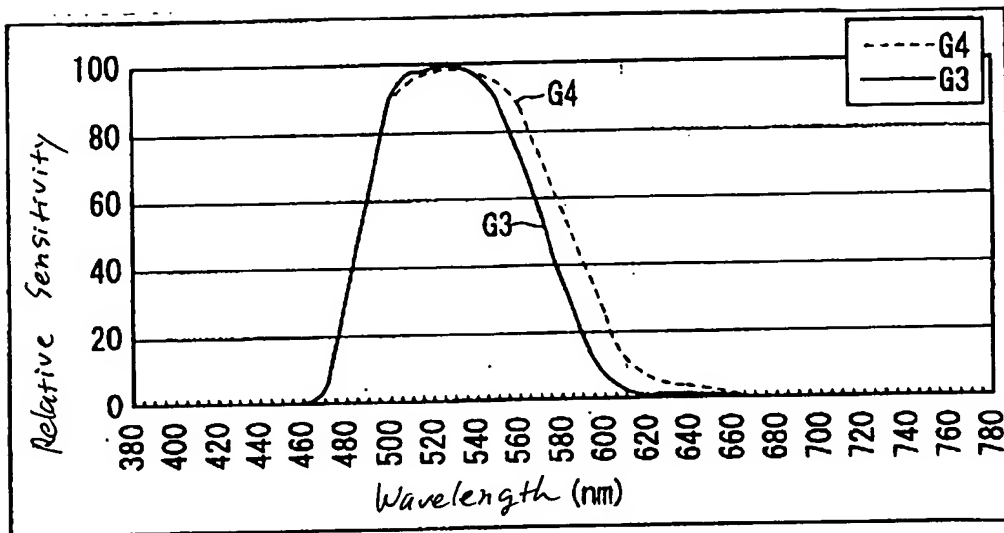


Fig. 13

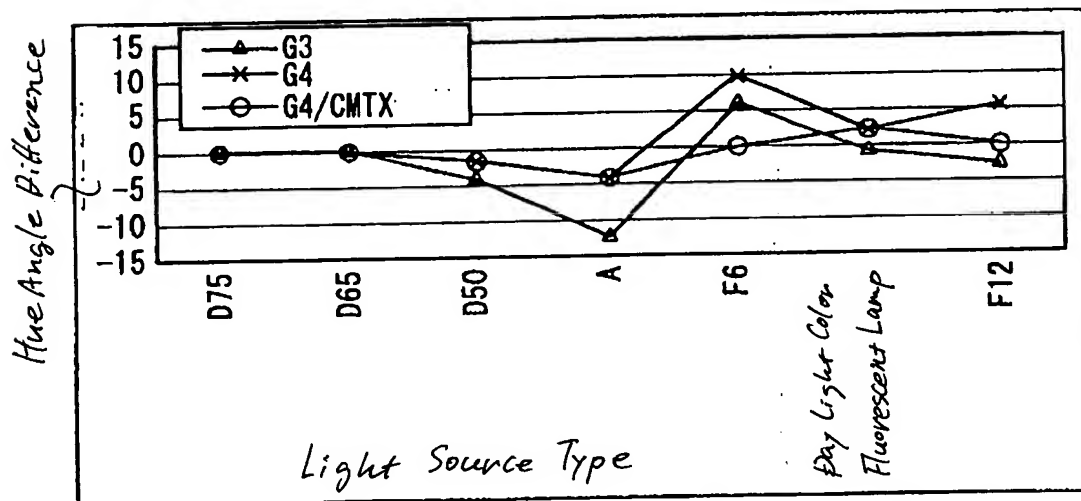


Fig. 14

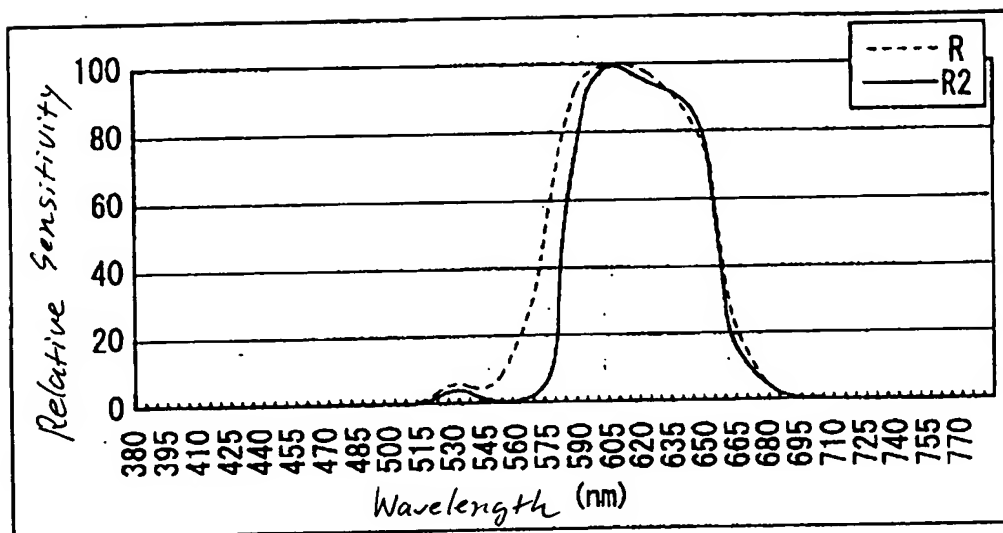


Fig.15

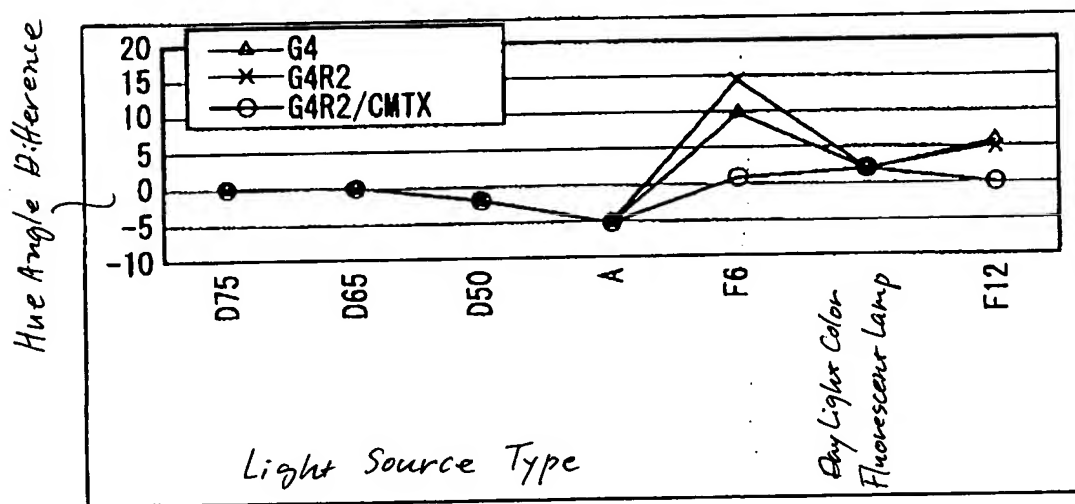
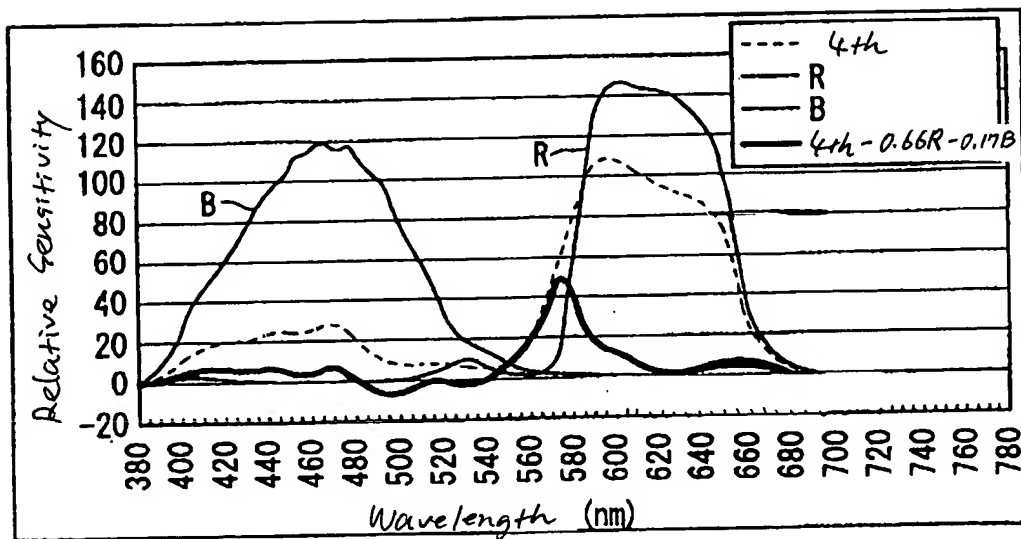


Fig.16

Fig. 17



$$(X_4 - k_{r2} \cdot X_r - k_{g2} \cdot X_g - k_{b2} \cdot X_b) / (k_r \cdot X_r + k_g \cdot X_g + k_b \cdot X_b)$$

$$k_{r2}=0.66, k_{g2}=0, k_{b2}=0.17, k_r=0.3, k_g=1, k_b=0$$

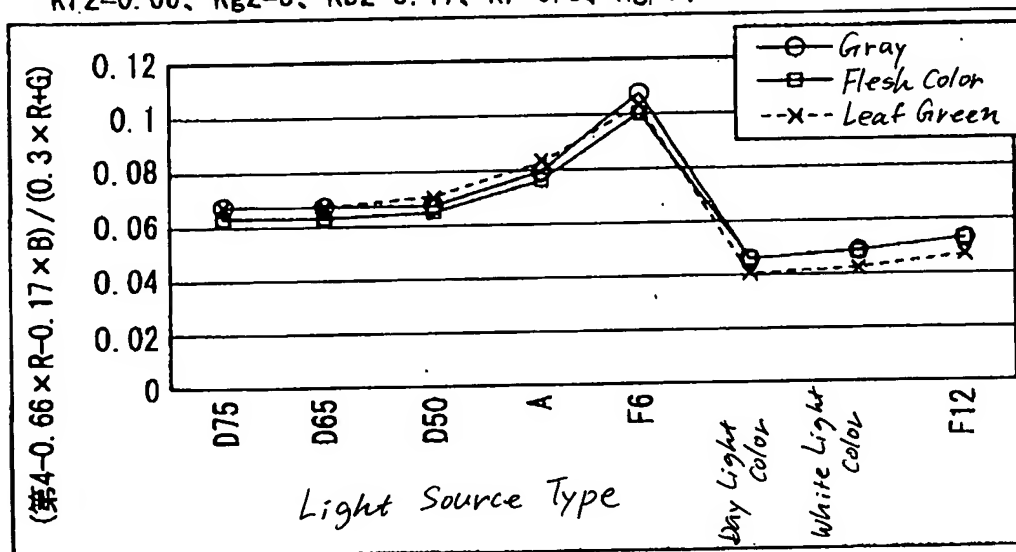


Fig. 18

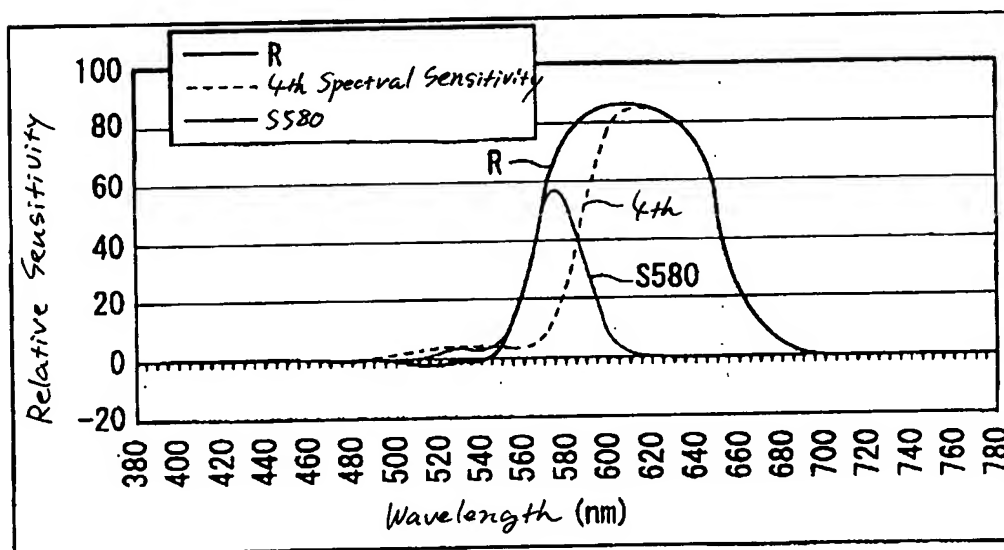


Fig. 19

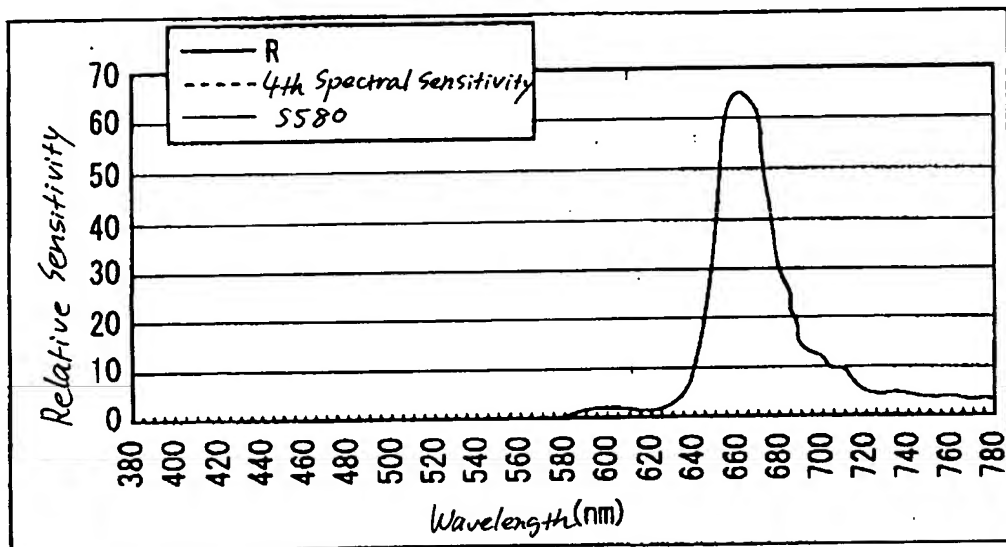


Fig. 20

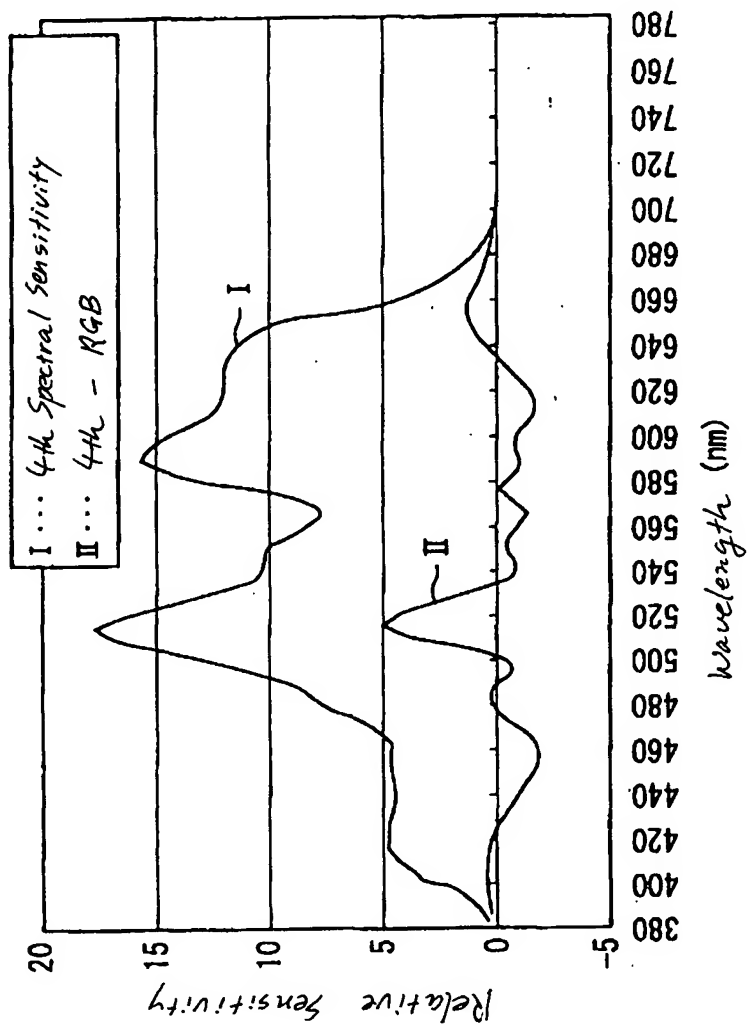


Fig. 21

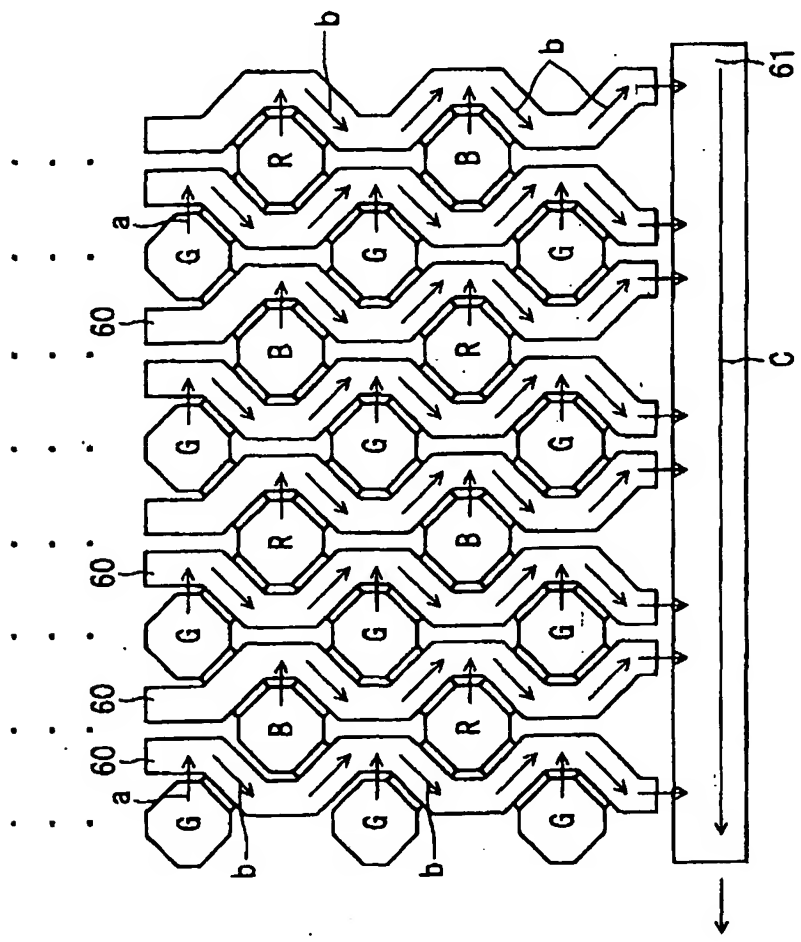


Fig. 22

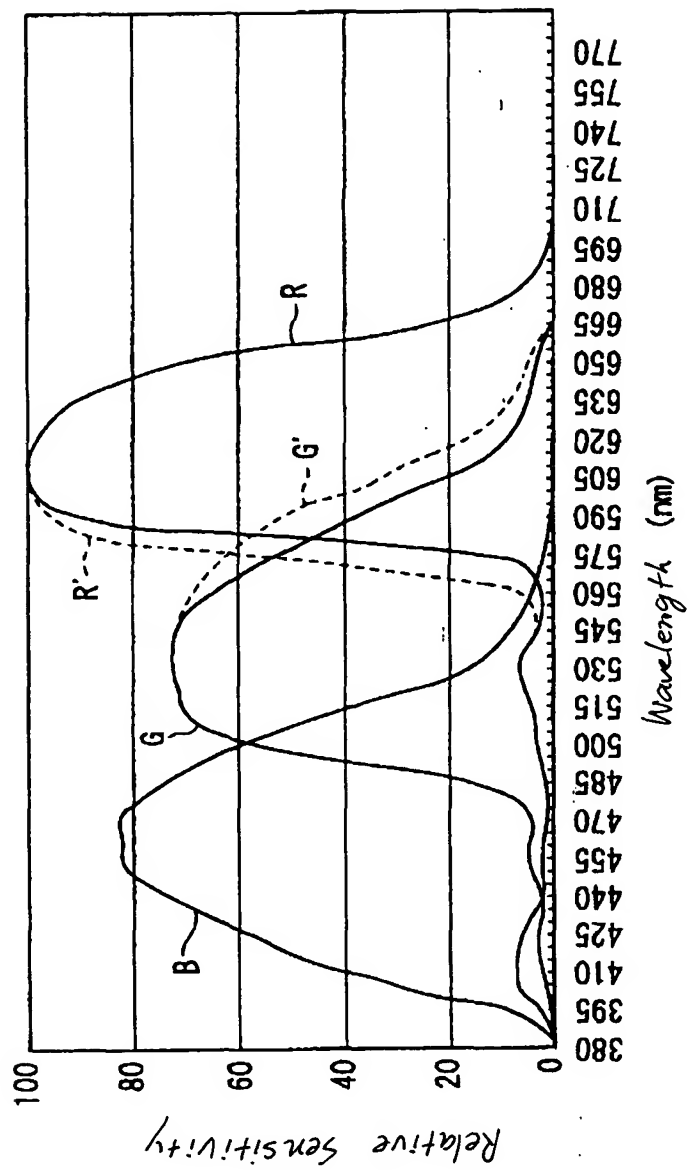


Fig. 23